



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/815,480

DATE: 07/27/2004

TIME: 12:45:29

Input Set : A:\-2-3.app

Output Set : N:\CRF4\07272004\J815480.raw

3 <110> APPLICANT: Young, Karen K. Y.
 4 Roche Molecular Systems, Inc.
 6 <120> TITLE OF INVENTION: Compositions and Methods for Detecting Certain
 7 Flaviviruses, Including Members of the Japanese
 8 Encephalitis Virus Serogroup
 10 <130> FILE REFERENCE: 022101-000230US
 12 <140> CURRENT APPLICATION NUMBER: US 10/815,480
 13 <141> CURRENT FILING DATE: 2004-03-31
 15 <150> PRIOR APPLICATION NUMBER: US 60/459,491
 16 <151> PRIOR FILING DATE: 2003-03-31
 18 <150> PRIOR APPLICATION NUMBER: US 60/552,454
 19 <151> PRIOR FILING DATE: 2004-03-12
 21 <150> PRIOR APPLICATION NUMBER: US 60/555,530
 22 <151> PRIOR FILING DATE: 2004-03-22
 24 <160> NUMBER OF SEQ ID NOS: 74
 26 <170> SOFTWARE: PatentIn Ver. 2.1
 28 <210> SEQ ID NO: 1
 29 <211> LENGTH: 25
 30 <212> TYPE: DNA
 31 <213> ORGANISM: Artificial Sequence
 33 <220> FEATURE:
 34 <223> OTHER INFORMATION: Description of Artificial Sequence:region of
 35 conserved sequence in 3' untranslated region of
 36 the genomes of flaviviruses
 38 <400> SEQUENCE: 1
 39 gtaagccctc agaaccgtct cggaa 25
 42 <210> SEQ ID NO: 2
 43 <211> LENGTH: 25
 44 <212> TYPE: DNA
 45 <213> ORGANISM: Artificial Sequence
 47 <220> FEATURE:
 48 <223> OTHER INFORMATION: Description of Artificial Sequence:complement to
 49 SEQ ID NO:1
 51 <400> SEQUENCE: 2
 52 ttccgagacg gttctgaggg cttac 25
 55 <210> SEQ ID NO: 3
 56 <211> LENGTH: 26
 57 <212> TYPE: DNA
 58 <213> ORGANISM: Artificial Sequence
 60 <220> FEATURE:
 61 <223> OTHER INFORMATION: Description of Artificial Sequence:Japanese
 62 encephalitis virus serogroup Primer 1
 64 <220> FEATURE:

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65 <221> NAME/KEY: modified_base
66 <222> LOCATION: (8)
67 <223> OTHER INFORMATION: n = t or absent
69 <400> SEQUENCE: 3
W--> 70 gwaascnsy crramcysyy tcggrw 26
73 <210> SEQ ID NO: 4
74 <211> LENGTH: 26
75 <212> TYPE: DNA
76 <213> ORGANISM: Artificial Sequence
78 <220> FEATURE:
79 <223> OTHER INFORMATION: Description of Artificial Sequence:West Nile virus
80     Primer 1
82 <220> FEATURE:
83 <221> NAME/KEY: modified_base
84 <222> LOCATION: (8)
85 <223> OTHER INFORMATION: n = t or absent
87 <400> SEQUENCE: 4
W--> 88 gtaagccncy cagaaccggy tcggaa 26
91 <210> SEQ ID NO: 5
92 <211> LENGTH: 26
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: Description of Artificial Sequence:Japanese
98     encephalitis virus Primer 1
100 <220> FEATURE:
101 <221> NAME/KEY: modified_base
102 <222> LOCATION: (8)
103 <223> OTHER INFORMATION: n = absent
105 <400> SEQUENCE: 5
W--> 106 gaaascnct crraacygty tcggaa 26
109 <210> SEQ ID NO: 6
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111 <212> TYPE: DNA
112 <213> ORGANISM: Artificial Sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: Description of Artificial Sequence:Murray Valley
116     encephalitis virus Primer 1
118 <400> SEQUENCE: 6
119 gaaagcctcc cagamccgty tcggaa 26
122 <210> SEQ ID NO: 7
123 <211> LENGTH: 25
124 <212> TYPE: DNA
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Description of Artificial Sequence:Koutango virus
129     Primer 1
131 <400> SEQUENCE: 7
132 gtaagccctc agaaccgtct cggaa 25

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135 <210> SEQ ID NO: 8
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137 <212> TYPE: DNA
138 <213> ORGANISM: Artificial Sequence
140 <220> FEATURE:
141 <223> OTHER INFORMATION: Description of Artificial Sequence:Example Primer
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144 <400> SEQUENCE: 8
145 gtaagccctc agaaccgtct cggaa                25
148 <210> SEQ ID NO: 9
149 <211> LENGTH: 25
150 <212> TYPE: DNA
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Description of Artificial Sequence:region of
155     conserved sequence in 3' untranslated region of
156     the genomes of flaviviruses
158 <400> SEQUENCE: 9
159 tctcctagtc tatcccaggt gtcaa                25
162 <210> SEQ ID NO: 10
163 <211> LENGTH: 25
164 <212> TYPE: DNA
165 <213> ORGANISM: Artificial Sequence
167 <220> FEATURE:
168 <223> OTHER INFORMATION: Description of Artificial Sequence:complement to
169     SEQ ID NO:9
171 <400> SEQUENCE: 10
172 agaggatcag atagggtcca cagtt                25
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176 <211> LENGTH: 24
177 <212> TYPE: DNA
178 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: Description of Artificial Sequence:Japanese
182     encephalitis virus serogroup Primer 2
184 <220> FEATURE:
185 <221> NAME/KEY: modified_base
186 <222> LOCATION: (11)
187 <223> OTHER INFORMATION: n = t or absent
189 <400> SEQUENCE: 11
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193 <210> SEQ ID NO: 12
194 <211> LENGTH: 23
195 <212> TYPE: DNA
196 <213> ORGANISM: Artificial Sequence
198 <220> FEATURE:
199 <223> OTHER INFORMATION: Description of Artificial Sequence:West Nile virus
200     Primer 2
202 <400> SEQUENCE: 12

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Input Set : A:\-2-3.app

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203 ycctagtcta tcccaggtrt caa 23
206 <210> SEQ ID NO: 13
207 <211> LENGTH: 24
208 <212> TYPE: DNA
209 <213> ORGANISM: Artificial Sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: Description of Artificial Sequence:Japanese
213     encephalitis virus Primer 2
215 <400> SEQUENCE: 13
216 cccyastmta tyyccagggtg tcaa 24
219 <210> SEQ ID NO: 14
220 <211> LENGTH: 24
221 <212> TYPE: DNA
222 <213> ORGANISM: Artificial Sequence
224 <220> FEATURE:
225 <223> OTHER INFORMATION: Description of Artificial Sequence:Murray Valley
226     encephalitis virus Primer 2
228 <400> SEQUENCE: 14
229 tcctagtctt ttcccagggtg tcaa 24
232 <210> SEQ ID NO: 15
233 <211> LENGTH: 23
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Description of Artificial Sequence:Example Primer
239     2
241 <400> SEQUENCE: 15
242 tcctagtcta tcccagggtgt caa 23
245 <210> SEQ ID NO: 16
246 <211> LENGTH: 28
247 <212> TYPE: DNA
248 <213> ORGANISM: Artificial Sequence
250 <220> FEATURE:
251 <223> OTHER INFORMATION: Description of Artificial Sequence:region of
252     conserved sequence in 3' untranslated region of
253     the genomes of flaviviruses
255 <400> SEQUENCE: 16
256 ggactagagg ttagaggaga ccccgcg 28
259 <210> SEQ ID NO: 17
260 <211> LENGTH: 28
261 <212> TYPE: DNA
262 <213> ORGANISM: Artificial Sequence
264 <220> FEATURE:
265 <223> OTHER INFORMATION: Description of Artificial Sequence:complement of
266     SEQ ID NO:16
268 <400> SEQUENCE: 17
269 ccgcgggggtc tcctctaacc tctagtcc 28
272 <210> SEQ ID NO: 18
273 <211> LENGTH: 28

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```

274 <212> TYPE: DNA
275 <213> ORGANISM: Artificial Sequence
277 <220> FEATURE:
278 <223> OTHER INFORMATION: Description of Artificial Sequence:probe for
279     detecting flaviviruses
281 <220> FEATURE:
282 <221> NAME/KEY: modified_base
283 <222> LOCATION: (25)
284 <223> OTHER INFORMATION: n = g, c, t, a or absent
286 <220> FEATURE:
287 <221> NAME/KEY: modified_base
288 <222> LOCATION: (26)
289 <223> OTHER INFORMATION: n = c, t, g or absent
291 <220> FEATURE:
292 <221> NAME/KEY: modified_base
293 <222> LOCATION: (27)
294 <223> OTHER INFORMATION: n = g, c, a, t or absent
296 <220> FEATURE:
297 <221> NAME/KEY: modified_base
298 <222> LOCATION: (28)
299 <223> OTHER INFORMATION: n = g, c, a, t or absent
301 <400> SEQUENCE: 18
W--> 302 ggwctagwgg ttagaggaga cccynnnn                28
305 <210> SEQ ID NO: 19
306 <211> LENGTH: 28
307 <212> TYPE: DNA
308 <213> ORGANISM: Artificial Sequence
310 <220> FEATURE:
311 <223> OTHER INFORMATION: Description of Artificial Sequence:probe for
312     detecting Japanese encephalitis virus serogroup
313     members
315 <400> SEQUENCE: 19
316 ggactagwgg ttagaggaga ccccrykk                28
319 <210> SEQ ID NO: 20
320 <211> LENGTH: 28
321 <212> TYPE: DNA
322 <213> ORGANISM: Artificial Sequence
324 <220> FEATURE:
325 <223> OTHER INFORMATION: Description of Artificial Sequence:probe for
326     detecting West Nile virus
328 <400> SEQUENCE: 20
329 ggactagwgg ttagaggaga cccrcrgk                28
332 <210> SEQ ID NO: 21
333 <211> LENGTH: 28
334 <212> TYPE: DNA
335 <213> ORGANISM: Artificial Sequence
337 <220> FEATURE:
338 <223> OTHER INFORMATION: Description of Artificial Sequence:probe for
339     detecting Japanese encephalitis virus

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/815,480

DATE: 07/27/2004
TIME: 12:45:31

Input Set : A:\-2-3.app
Output Set: N:\CRF4\07272004\J815480.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 8
Seq#:4; N Pos. 8
Seq#:5; N Pos. 8
Seq#:11; N Pos. 11
Seq#:18; N Pos. 25,26,27,28
Seq#:34; N Pos. 384
Seq#:42; N Pos. 27
Seq#:43; N Pos. 26,27
Seq#:45; N Pos. 27
Seq#:46; N Pos. 26,27
Seq#:48; N Pos. 27
Seq#:49; N Pos. 26,27
Seq#:51; N Pos. 24
Seq#:52; N Pos. 23,24
Seq#:54; N Pos. 25
Seq#:55; N Pos. 24,25
Seq#:57; N Pos. 28
Seq#:58; N Pos. 27,28
Seq#:60; N Pos. 26
Seq#:62; N Pos. 24
Seq#:63; N Pos. 23,24
Seq#:65; N Pos. 25
Seq#:67; N Pos. 23

VERIFICATION SUMMARY

DATE: 07/27/2004

PATENT APPLICATION: US/10/815,480

TIME: 12:45:31

Input Set : A:\-2-3.app

Output Set: N:\CRF4\07272004\J815480.raw

L:70 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:88 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:190 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:555 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:360
L:706 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0
L:760 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0
L:783 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0
L:814 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0
L:837 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0
L:868 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0
L:891 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:0
L:922 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:0
L:945 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0
L:976 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0
L:999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:0
L:1030 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:0
L:1061 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0
L:1084 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0
L:1115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:0
L:1146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:0